

Zadanie 1. (3 pkt)

Niech $\log_7 4 = a$. Wyznacz $\log_{\sqrt{2}} 49$ w zależności od a .

$$\begin{aligned}\log_{\sqrt{2}} 49 &= \frac{\log_7 49}{\log_7 \sqrt{2}} = \frac{2}{\log_7 4^{\frac{1}{2}}} = \\ &= \frac{2}{\frac{1}{2} \log_7 4} = \frac{2}{\frac{1}{2} a} = \frac{8}{a}\end{aligned}$$